#3

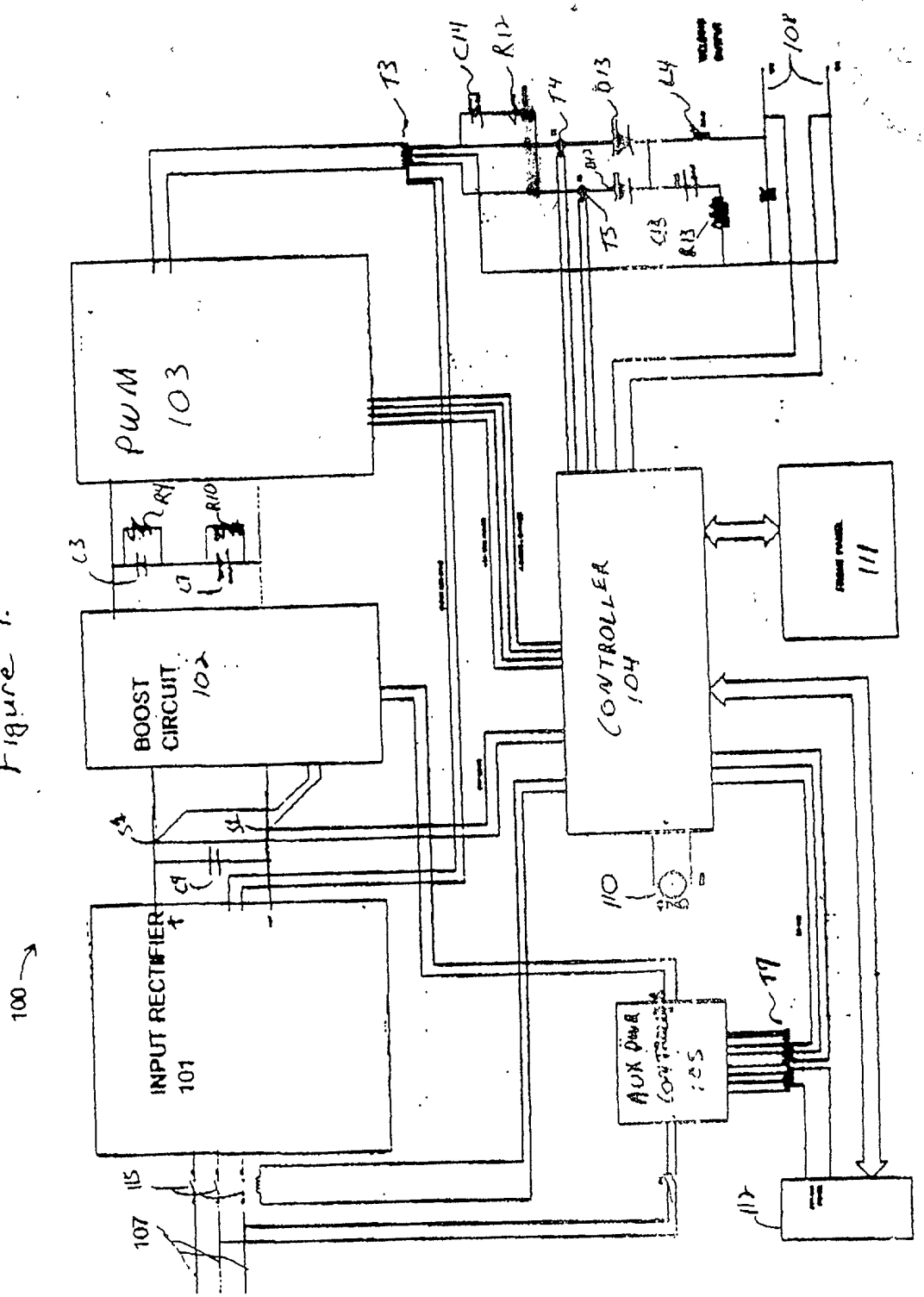

PWM
103
BOOST
CIRCUIT
102
INPUT RECTIFIER
101
CONTROLLER
104
111
100
107
115
110
117
112
T3
T4
T5
L4
C3
C4
C9
C11
C13
C14
R10
R11
R12
R13
D13

Figure 1.

TOTTORI ILL2950

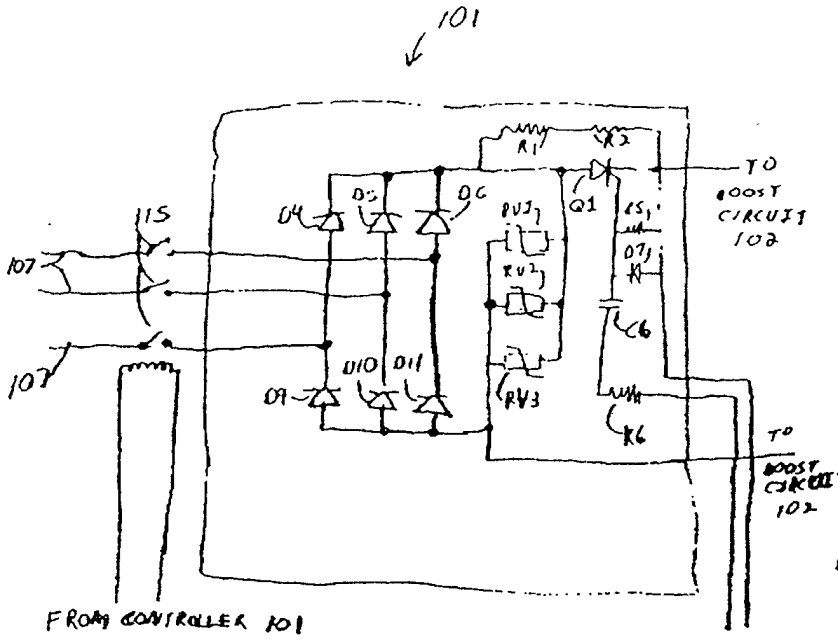
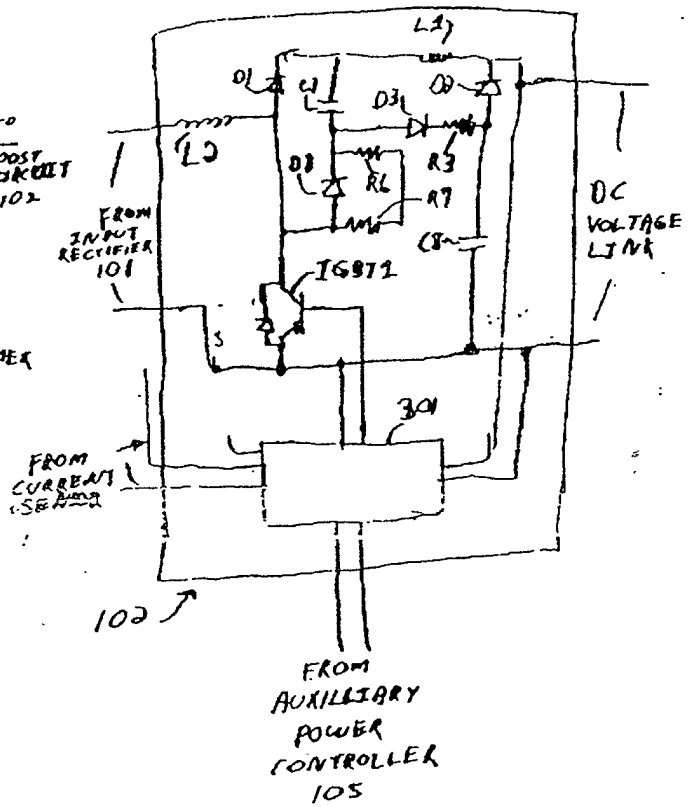


FIGURE 2

FIGURE 3



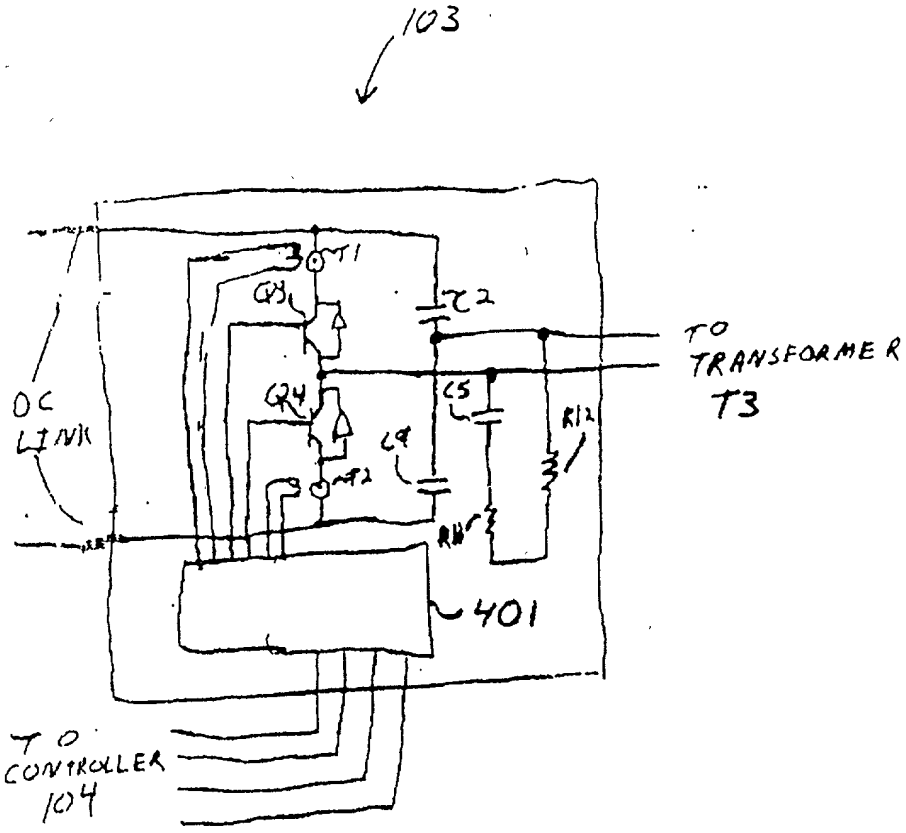

103
T1
Q3
C2
TO
TRANSFORMER
T3
Q4
C5
R12
DC
LINK
C9
RW
401
TO
CONTROLLER
104

FIGURE 4

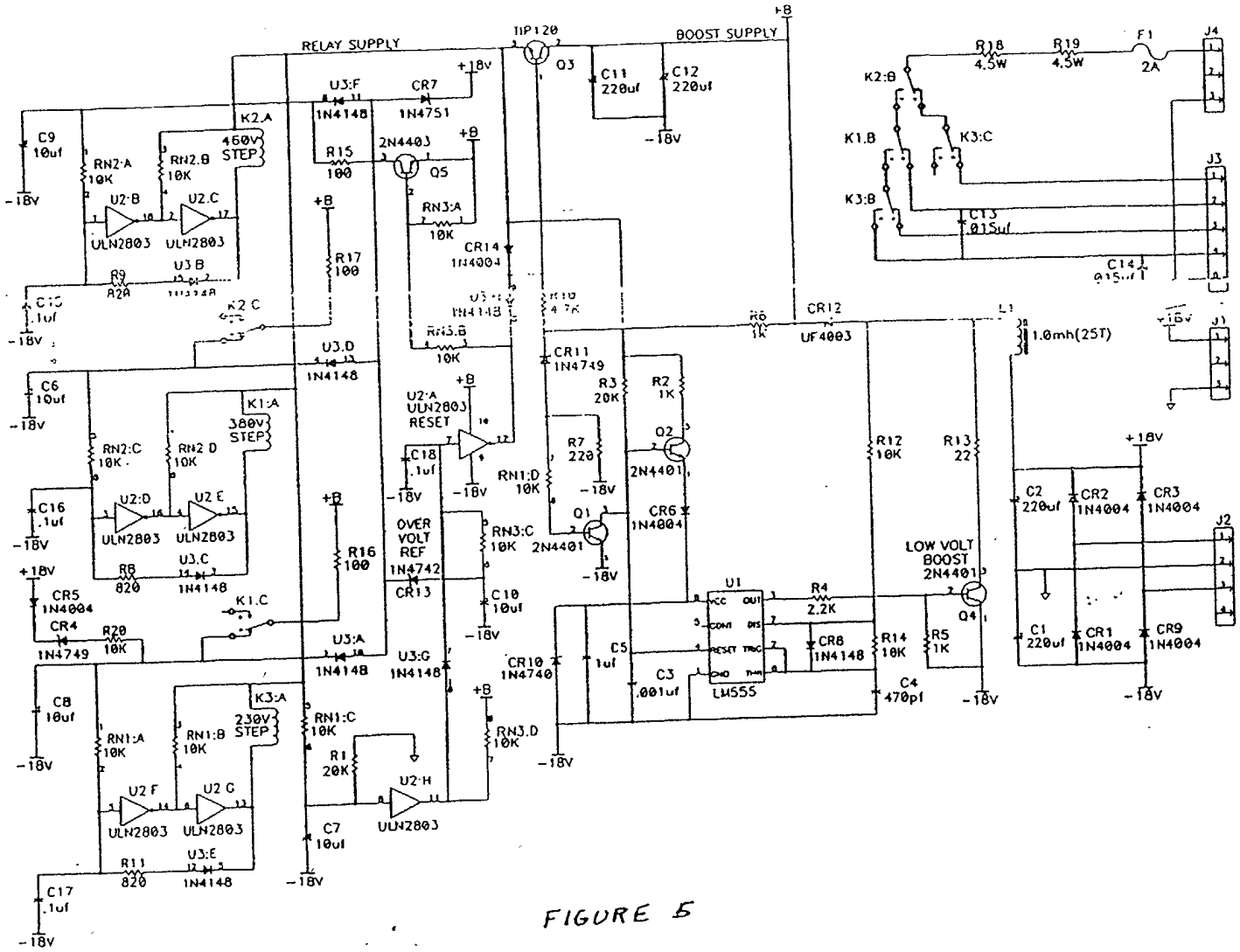

RELAY SUPPLY
BOOST SUPPLY
+B
TIP120
Q3
C11 220uf
C12 220uf
-18V
+18V
U3:F
1N4148
CR7
1N4751
K2:A
460V STEP
C9 10uf
RN2:A 10K
RN2:B 10K
U2:B
U2:C
ULN2803
R15 100
2N4403
Q5
RN3:A 10K
CR14 1N4004
R17 100
K2:C
U3:D
1N4148
RN3:B 10K
CR11 1N4749
R3 20K
R2 1K
R7 220
Q2 2N4401
RN1:D 10K
Q1 2N4401
CR6 1N4004
C6 10uf
K1:A
380V STEP
RN2:C 10K
RN2:D 10K
U2:D
U2:E
C16 .1uf
R8 820
U3:C
1N4148
U2:A ULN2803 RESET
C18 .1uf
OVER VOLT REF 1N4742
CR13
RN3:C 10K
C10 10uf
R16 100
K1:C
CR5 1N4004
CR4 1N4749
R20 10K
U3:A
U3:G
CR10 1N4740
C5 1uf
C3 .001uf
U1
LM555
R4 2.2K
CR8 1N4148
R14 10K
R5 1K
C4 470pf
LOW VOLT BOOST 2N4401
Q4
R12 10K
R13 22
CR12 UF4003
L1 1.0mh(25T)
C8 10uf
K3:A
230V STEP
RN1:A 10K
RN1:B 10K
RN1:C 10K
R1 20K
U2:H
ULN2803
RN3:D 10K
C7 10uf
U2:F
U2:G
R11 820
U3:E
1N4148
C17 .1uf
R18 4.5W
R19 4.5W
F1 2A
J4
K2:B
K1:B
K3:C
K3:B
J3
CT3 .015uf
C14 .015uf
J1
J2
C2 220uf
CR2 1N4004
CR3 1N4004
C1 220uf
CR1 1N4004
CR9 1N4004

FIGURE 5